Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

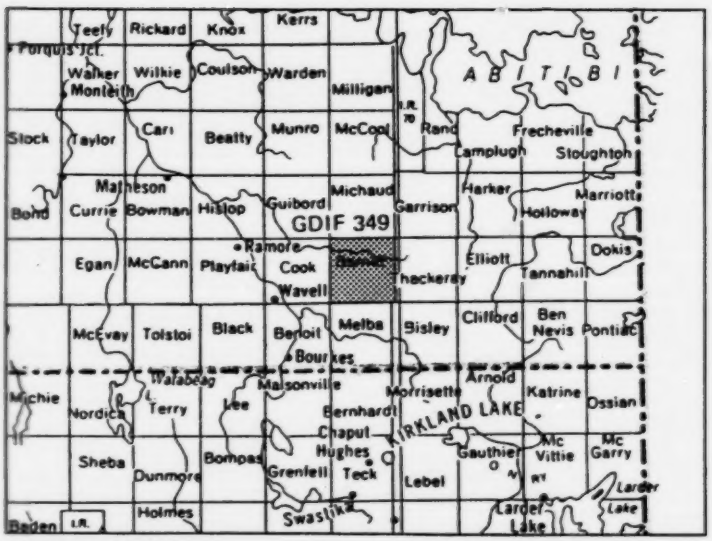
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 349

BARNET TOWNSHIP

DISTRICT OF COCHRANE

Compiled by the staff of
the Resident Geologist's Office
Kirkland Lake



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

87-06508/

NTS Number 42A/8

Mining Claim Map Number

This project is part of Operation Black River-Matheson (BRIM) which was funded equally by the Ontario Ministry of Northern Development and Mines and the Ontario Ministry of Natural Resources.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1987: Barnet Township, District of Cochrane; Ontario Geological Survey, Geological Data Inventory Folio 349, compiled by the staff of the Resident Geologist's Office Kirkland Lake, 27 p. and 2 maps.

Original Compilation by: W.J. Dennis, K.D. Kalicharran, P.E. Savarie and B.J. Westin, October 20, 1986

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ACCOMPANYING MAPS

Property Location Map 1
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Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	**20.116 8**	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	W.J.D.
2	Assessment Files Research Office, Toronto	YES	P.E.S.
3	ODM General Index; 9 volumes	YES	P.E.S.
4	Catalogue of Airborne Geophysical Surveys (ODM)	YES	B.J.W.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	NO	W.J.D.
6	ODM Industrial Mineral Reports	NO	K.D.K.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	W.J.D.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	W.J.D.
9	Newspaper Clippings File	YES	W.J.D.
10	GSC Index to Publications	YES	W.J.D.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	W.J.D.
12	OGS Index Maps	YES	W.J.D.
13	Source Mineral Deposit Records (O.G.S.)	YES	K.D.K.
14	Author - Subject Articles File	YES	W.J.D.
15	Miscellaneous Papers: ODM & OGS	YES	W.J.D.
16	ODM Geological Circulars: OGS Study Series	NO	K.D.K.
17	ODM Preliminary Reports: ODM Bulletins	NO	K.D.K.
18	ODM – OGS Open File Reports	YES	W.J.D.
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	W.J.D.
20	OGS Aggregate Resources Inventory Papers	NO	W.J.D.
21	OGS Mineral Potential Maps	YES	W.J.D.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite	△ fu. . . . . .Fuchsite	△ Ni. . . . . Nickel	△ st . . . . . .Stone
△ ank. . . . . .Ankerite	▲ gn. . . . . Galena	△ Nb . . . . . .Niobium	△ talc. . . . . .Talc
△ anna . . . . . Annabergite	△ gt. . . . . Garnet	△ Pd . . . . . Palladium	△ Te . . . . . .Tellurium
△ ap. . . . . .Apatite	△ goe . . . . . .Goethite	△ peat . . . . . .Peat	△ td. . . . . Tetrahedrite
△ arg . . . . . Argentite	▲ Au . . . . . Gold	△ pent . . . . . Pentlandite	△ th. . . . . .Thorite
△ As . . . . . .Arsenic	▲ gf. . . . . .Graphite	△ Pt. . . . . .Platinum	△ Th . . . . . .Thorium
△ asp . . . . . .Arsenopyrite	△ gl . . . . . Gravel	▲ py . . . . . .Pyrite	△ thuc . . . . . Thucholite
△ asb . . . . . .Asbestos	△ gyp. . . . . Gypsum	△ pyl . . . . . Pyrochlore	△ ti . . . . . Titanite
△ ba. . . . . .Barite	▲ hem . . . . . Hematite	△ pyrl . . . . . .Pyrolusite	△ Ti. . . . . Titanium
△ be. . . . . Beryl	△ il . . . . . Ilmenite	▲ po . . . . . .Pyrrhotite	△ tour . . . . . .Tourmaline
△ Bi. . . . . Bismuth	△ Fe . . . . . .Iron	▲ q . . . . . Quartz	△ trap . . . . . .Trap rock
△ bn . . . . . .Bornite	△ IF. . . . . Iron Formation	▲ qcv . . . . .Quartz carbonate vein	△ W. . . . . Tungsten
△ bran . . . . . .Brannerite	△ jas . . . . . Jasper	△ ra. . . . . .Radioactive minerals	△ uran . . . . . Uraninite
△ bruc . . . . . .Brucite	△ kaol . . . . . .Kaolinite (kaolin)	△ RE . . . . . .Rare Earths	△ U . . . . . .Uranium
△ Cd . . . . . Cadmium	△ ky . . . . . Kyanite	△ sd. . . . . Sand	△ verm . . . . . .Vermiculite
△ calc. . . . . Calcite	△ Pb . . . . . Lead	△ sgl . . . . . Sand and gravel	△ Y . . . . . Yttrium
△ carb . . . . . .Carbonate	△ lim . . . . . Limonite	△ ss . . . . . .Sandstone	△ Zn . . . . . .Zinc
△ cel . . . . . .Celestite	△ Li. . . . . Lithium	△ scap . . . . . Scapolite	△ zr. . . . . Zircon
△ cc. . . . . .Chalcocite	△ mgst . . . . . .Magnesite	△ shee . . . . . .Scheelite	
▲ cp. . . . . .Chalcopyrite	△ mag . . . . . .Magnetite	△ serp . . . . . Serpentine	
△ ch. . . . . .Chert	△ mc . . . . . Malachite	△ sh. . . . . .Shale	
△ clay . . . . . .Clay	△ Mn . . . . . Manganese	△ sid . . . . . Siderite	
△ Co . . . . . Cobalt	△ mb . . . . . .Marble	△ si . . . . . .Silica	
△ cob. . . . . Cobaltite	△ mar. . . . . Marcasite	△ Ag . . . . . .Silver	
△ cb. . . . . .Columbite	△ ma . . . . . .Marl	△ sl . . . . . Slate	
△ Cu . . . . . .Copper	△ mi . . . . . Mica	△ sm . . . . . .Smaltite	
△ cor . . . . . Corundum	△ ml . . . . . .Millerite	△ sod. . . . . .Sodalite	
△ dol . . . . . Dolomite	△ mo . . . . . Molybdenite	△ spec . . . . . Specularite	
▲ ep. . . . . Epidote	△ Mo . . . . . .Molybdenum	△ sp. . . . . .Sphalerite	
△ ery . . . . . Erythrite	△ mon . . . . . Monazite	△ spd. . . . . .Spodumene	
△ fel . . . . . .Feldspar	△ ne. . . . . Nephelite (nepheline)	△ staur. . . . . .Staurolite	
△ fl . . . . . .Fluorite (flurospar)	△ nc. . . . . .Niccolite	△ stib. . . . . Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or are mentioned in the Drillhole Summary.

BARNET TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Bonwitha Mining Co. Ltd.	Au	-	Resident Geologist Assessment files, Kirkland Lake, Ont.	Diamond drilling and trenching samples; best assay 0.74oz Au/t over 6' wide
B	Brett-Tretheway	Au	-	Resident Geologist Assessment files, Kirkland Lake, Ont. OFR 5467	"There was coarse gold in the porphyry and leaf gold in the diorite wall as large as quarters." "one nuggett ..... valued at $600."
C	Cooper, F.L.	Au	-	Resident Geologist Assessment files, Kirkland Lake, Ont.	"Assays of samples taken from quartz vein on the west claims showed 0.02oz Au/t as did assays of the goudge running parallel to this vein"
D	Noranda Exploration Co. Ltd. "1-79"	Au	-	Resident Geologist Assessment files, Kirkland Lake, Ont.	Altered basalt composed of pyroxene and plagioclase with disseminated pyrite value 0.01oz Au/t over 0.5'.
E	Dominion Gulf Group 2 (cross check with Thackeray Tp.)	Au	-	OFR 5467	

GDIF FORM NO. 1

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TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Boland, C. and Bell, T. (Midrim Mining Co. Ltd.)								65	65										
2	Bonwitha Mining Co. Ltd.			61	61							61								
3	Brett-Tretheway							29												
4	Brinco Mining Ltd. "Tillicum Project"											83	83							
5	Bugow, R.			75																
6	Canadian Gold & Metals Inc.				81				80	80										
7	Cooper, F.L.					44		44												
8	D'Aragon Mines, Ltd.											47								
9	Dominion Gulf Company "Group I"	50			51							50								
10	Dominion Gulf Company "Group II"	50		49	50							50								
11	International Nickel Co. of Canada, Ltd.				66															

GDIF FORM NO. 2

BARNET TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
12	Larche, J.P.												78							
13	Noranda Exploration Co. Ltd. "1-79"				80							79	79							
14	Noranda Exploration Co. Ltd. "1-82"				82															
15	Peter Island Resources Inc.				85 86							84	84							
16	St. Joe Canada Inc.				82							86								
17	Kiernicki, F.; Leahy, M.								86	86										

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Bonwitha Mines Co. Ltd.	DDH1A	1961	-	-49°	-	9'	-	-
2	" "	DDH-1	1961	-	-47°	-	47'	-	Au
3	" "	DDH-2	1961	-	-46°	-	29'	-	Au
4	Canadian Gold & Metals Inc.	1	1981	-	-90°	67'	67'	-	-
5	" "	2	1981	-	-90°	67'	67'	-	-
6	" "	3	1981	-	-90°	75'	75'	-	-
7	" "	4	1981	-	-90°	71'	71'	-	-
8	" "	5	1981	-	-90°	64'	64'	-	-
9	" "	6	1981	-	-90°	31'	31'	-	-
10	" "	7	1981	-	-90°	34'x2	34'x2	-	-
11	" "	8	1981	-	-90°	28'x2	28'x2	-	-
12	" "	9	1981	-	-90°	40'	40'	-	-
13	" "	10	1981	-	-90°	19'	19'	-	-
14	" "	11	1981	-	-90°	25'	25'	-	-
15	" "	12	1981	-	-90°	19'	19'	-	-
16	" "	13	1981	-	-90°	21'	21'	-	-
17	" "	14	1981	-	-90°	26',16'	26',16'	-	-
18	" "	15	1981	-	-90°	42'	42'	-	-

GDIF FORM NO. 1

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
19	Canadian Gold & Metals Inc.	16	1981	-	-90°	37'	37'	-	-
20	" "	17	1981	-	-90°	29'	29'	-	-
21	" "	18	1981	-	-90°	35'	35'	-	-
22	" "	19	1981	-	-90°	34'	34'	-	-
23	" "	20	1981	-	-90°	39'	39'	-	-
24	" "	21	1981	-	-90°	24'	24'	-	-
25	" "	22	1981	-	-90°	31'	31'	-	-
26	" "	23	1981	-	-90°	61'	61'	-	-
27	" "	24	1981	-	-90°	58'	58'	-	-
28	" "	25	1981	-	-90°	54'	54'	-	-
29	" "	26	1981	-	-90°	47'	47'	-	-
30	" "	27	1981	-	-90°	62'	62'	-	-
31	Dominion Gulf Company "Group 1"	36-1	01/51	347°	-45°	5'	312'	-	Au
32	" "	36-2	01/51	346°	-45°	6'	595'	qcv,ep,py	Au
33	" "	36-3	01/51	315°	-45°	7'	645'	py,qcv,gf	Au
34	" "	36-4	02/51	20°	-45°	6'	476'	py,qcv	

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† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
35	Dominion Gulf Company "Group II"	1	10/50	180°	-40°	14'	504'	py,ep,qcv	Au
36	" "	2	11/50	180°	-70°	10'	213'	py,gn,cp,qcv	Au
37	" "	3	11/50	225°	-45°	0	620'	py,cp,hem	Au
38	" "	4	12/50	105°	-45°	10'	683'	py,qcv,ep	-
39	International Nickel Co. of Canada, Ltd.	29139	02/66	180°	-50°	162'	498'	po	-
40	Noranda Exploration Co. Ltd. "1-79"	Barn 80-1†	08/80	0	-50°	8'	444'	py,ep	Au
41	Noranda Exploration Co. Ltd. "1-82"	1	06/82	-	-90°	8'	8'	-	-
42	" "	2	06/82	-	-90°	28'	28'	-	-
43	" "	3	06/82	-	-90°	3'	3'	-	-
44	" "	4	06/82	-	-90°	19'	19'	-	-
45	" "	5	06/82	-	-90°	27'	27'	-	-
46	" "	6	06/82	-	-90°	6'	6'	-	-
47	" "	7	06/82	-	-90°	28'	28'	-	-
48	" "	8	06/82	-	-90°	22'	22'	-	-
49	" "	9	06/82	-	-90°	5'	5'	-	-

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
50	Noranda Exploration Co. Ltd. "1-82"	10	06/82	-	-90°	33'	33'	-	-
51	" "	11	06/82	-	-90°	4'	4'	-	-
52	" "	12	06/82	-	-90°	54'	54'	-	-
53	" "	13	06/82	-	-90°	20'	20'	-	-
54	" "	14	06/82	-	-90°	23'	23'	-	-
55	" "	15	06/82	-	-90°	4'	4'	-	-
56	" "	16	06/82	-	-90°	16'	16'	-	-
57	" "	17	06/82	-	-90°	46'	46'	-	-
58	" "	18	06/82	-	-90°	4'	4'	-	-
59	" "	19	06/82	-	-90°	3'	3'	-	-
60	" "	20	06/82	-	-90°	9'	9'	-	-
61	" "	21	06/82	-	-90°	47'	47'	-	-
62	" "	22	06/82	-	-90°	27'	27'	-	-
63	" "	23	06/82	-	-90°	54'	54'	-	-
64	St. Joe Canada Inc.	RC-MB-82-40	12/82	-	-90°	118'	123'	-	Au
65	" "	-41	12/82	-	-90°	153'	156'	-	Au

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
66	St. Joe Canada Inc.	-42	12/82	-	-90°	169'	172'	-	Au
67	" "	-43	12/82	-	-90°	187'	187'	Hole abandoned	Au
68	" "	-44	12/82	-	-90°	110'	113'	-	Au
69	" "	-45	12/82	-	-90°	31'	44'	-	Au
70	" "	-46	12/82	-	-90°	61'	64'	-	Au
71	" "	-47	12/82	-	-90°	129'	133'	-	Au
72	" "	-48	12/82	-	-90°	123'	125'	-	Au
73	" "	-49	12/82	-	-90°	117'	123'	-	Au
74	" "	-50	12/82	-	-90°	131'	133'	-	Au
75	" "	-51	12/82	-	-90°	103'	107'	-	Au
76	" "	-52	12/82	-	-90°	66'	72'	-	Au
77	" "	-53	12/82	-	-90°	134'	135'	-	Au
78	" "	-54	12/82	-	-90°	111'	113'	-	Au
79	" "	-55	12/82	-	-90°	40'	44'	-	Au
80	" "	-56	12/82	-	-90°	19'	25'	-	Au
81	" "	-57	12/82	-	-90°	45'	49'	-	Au
82	" "	-58	12/82	-	-90°	50'	54'	-	Au

GDIF FORM NO. 1

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
83	St. Joe Canada Inc.	RC-MB-82-62	01/83	-	-90°	98'	103'	-	Au
84	" "	-63	01/83	-	-90°	138'	143'	-	Au
85	" "	-64	01/83	-	-90°	89'	93'	-	Au
86	" "	-65	01/83	-	-90°	81'	84'	-	Au
87	" "	-66	01/83	-	-90°	118'	122'	-	Au
88	" "	-67	01/83	-	-90°	47'	54'	-	Au
89	" "	RC-MB-83-73	02/83	-	-90°	42'	44'	-	Au
90	" "	-74	02/83	-	-90°	141'	148'	-	Au
91	" "	-75	02/83	-	-90°	117'	120'	-	Au
92	" "	-76	02/83	-	-90°	79'	84'	-	Au
93	" "	-77	02/83	-	-90°	113'	113'	-	Au
94	" "	-78	02/83	-	-90°	118'	119'	-	Au
95	" "	-79	02/83	-	-90°	64'	69'	-	Au
96	" "	RC-MB-83-115	03/83	-	-90°	98'	102'	-	Au
97	Peter Island Resources	PI 8501	07/85	180°	-45°	57'	300'	py,gn	Au
98	" "	PI 8502	07/85	180°	-45°	56'	301'	py,cpy	Au

GDIF FORM NO. 1

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
99	Peter Island Resources	PI 8503	07/85	180°	-45°	92'	302'	py,cpy,ep	Au,Ag
100	" "	PI 8506	11/85	180°	-45°	38'	366'	py,ep	Au

GDIF FORM NO. 1

† - Core stored at Swastika Drill Core Storage Library

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	By: Canadian Aero Mineral Surveys Ltd.	Electromagnetic (low frequency (320 cps.) in phase/out-of-phase system)	150'	N-S	1/8ml. (660')
	For: Midrim Mining Company Ltd.	Magnetic (Elliott electron-beam tube magnetometer)			
6	By: Geophysical Surveys Inc.	Electromagnetic (EM-33 from Geonics Ltd.)		N-S	656' (200m)
	For: Canadian Gold and Metals Inc.	Magnetic (G803 proton preccession magnetometer from Geometrics Ltd.)			
17	By: H. Ferderber Geophysics Ltd.	Electromagnetic (Hertz Totem 1A.)	250'	N-S	1/12ml. (440')
	For: F. Kiernicki; M. Leahy	Magnetic (GEM GSM-18 proton Precession)			

GDIF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

BARNET TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kirkland Lake

Midrim Mining Limited

Northern Miner February 25, 1965

Glimmer Resources

Northern Miner March 17, 1986

ODM GENERAL INDEX SEARCH

Words searched: Barnet Township
Brett-Tretheway Mines Ltd.

Index Volume	Listing:	Report Volume	Part	Page
2	Barnet Tp., Coch. Dist.			
	Access to; rocks, timber, soil	30	6	49
	Forest fires	30	6	32
	Map. See map 30c	30	6	
	Silver prospecting in,	26		126
		30	6	29
3	Barnet Tp., Coch.			
	Gold Discovery	37	3	27
	mg.see Brett-Tretheway Mines			
	Brett-Tretheway Mines Ltd.			
	Capital; officers, operations	38	1	89
	Development work, Kenty g.m.	41	3	53
	Incorporated	37	1	57
5	Barnet Tp., Coch.			
	Rocks	60	9	10
9	Barnet Tp., Coch. dist.			
	Gravity Survey of the Timmins-Matheson area	GR135		

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Boissoneau, A.N.	1965	Algoma-Cochrane Surficial Geology Ontario	ODL & F Map S365	1:506 880
Boissoneau, A.N.	1965	Algoma, Sudbury, Timiskaming and Nipissing Surficial Geology	ODL & F Map S465	1:506 880
Ginn, R.M.	1964	Timmins - Kirkland Lake Sheet, Cochrane, Sudbury and Timiskaming Dists., Ont. Geol. Compilation Series	ODM Map 2046	1:253 440
Lumbers, S.B. Milne, V.G.	1976	Ontario Geological Map, East Central Sheet	OGS Map 2393	1:1 013 760
MERQ-OGS	1984	Lithostratigraphic Map of the Abitibi Subprovince	OGS Map 2484 Que Map DV83-16	1:500 000
Ministry of Natural Resources	1985	Ontario Mineral Map	ODM Map 2472	1:1 584 000
OGS	1980	Geological Highway Map, Northern Ontario	OGS MAP 2440	1:1 600 000
Pyke, D.R., Ayres, L.D. Innes, D.G.	1973	Timmins - Kirkland Lake, Geological Compilation Series, Cochrane, Sudbury and Timiskaming Districts	ODM Map 2205	1:253 440
		GEOPHYSICAL MAPS		
Data Plotting Services Inc.	1985	Matheson Black River Area (BRIM) Airborne Magnetic Survey Second Vertical Derivative	OGS Resident Geologist's Office, Kirkland Lake, Ontario	1:100 000
Data Plotting Services Inc.	1985	Matheson Black River Area (BRIM) Magnetic Survey Total Field	OGS Resident Geologist's Office, Kirkland Lake, Ontario	1:80 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
GSC	1970	Ramore, Cochrane and Timiskaming Districts GSC Aeromagnetic Series (Rev.) NTS 42A/08	Map 295G	1:63 360
GSC	1970	Timmins, Cochrane, Timiskaming and Sudbury Districts, Ontario Total Field Contour Map Aeromagnetic Series	Map 7085G	1:250 000
GSC	1970	Ramore, Cochrane and Timiskaming Districts, Ontario	Map 8430	1:31 680
GSC	1975	Ramore East, Northeast Quarter, NTS 42A/8h Geophysical Series (High Resolution Aeromagnetic)	Map 20 146G	1:25 000
GSC	1975	Ramore East, Northwest Quarter, NTS 42A/8g Geophysical Series (High Resolution Aeromagnetic)	Map 20 152G	1:25 000
GSC	1975	Ramore East, Southwest Quarter, NTS 42A/8b Geophysical Series (High Resolution Aeromagnetic)	Map 20 151G	1:25 000
GSC	1975	Ramore East, Southeast Quarter, NTS 42A/8a Geophysical Series (High Resolution Aeromagnetic)	Map 20 145G	1:25 000
Middleton, R.S.	1976	Gravity Survey of Geological Structures in the Timmins and Matheson Area, NTS 42A, Cochrane, Sudbury and Timiskaming Districts	ODM GR 135 Map 2321 2322	45p. 1:250 000 1:250 000
OGS	1984	Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, Barnet Township.	OGS Map 80 607 2 maps	1:31 680 1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Total Count, Timmins NTS 42A	OGS Map 80 280 GSC Map 35142	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Potassium (percent) Timmins, NTS 42A	OGS Map 80 281 GSC Map 35142	1:250 000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Uranium (eU), Timmins, NTS 42A	OGS Map 80 282 GSC Map 35142	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Thorium (eTh), Timmins, NTS 42A	OGS Map 80 283 GSC Map 35142	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eU/Th Ratio, Timmins, NTS 42A	OGS Map 80 284 GSC Map 35142	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eu/K Ratio, Timmins, NTS 42A	OGS Map 80 285 GSC Map 35142	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eTh/K Ratio, Timmins NTS 42A	OGS Map 80 286 GSC Map 35142	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Integral U, Th, K, U/Th, U/K, Th/K, for line 62(1), Timmins NTS 42A	OGS Map 80 317 GSC Map 35142	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Integral U, Th, K, U/Th, U/K, Th/K, for line 63(1), Timmins NTS 42A	OGS Map 80 318 GSC Map 35142	1:250 000
		GEOLOGICAL MAPS AND REPORTS		
Baker, C.L.	1982	Drift Thickness of the Ramore area, Cochrane and Timiskaming Districts	OGS Map P.2477	1:50 000
Baker, C.L.	1982	Sand and Gravel Resources of the Ramore Area, Cochrane and Timiskaming Districts	OGS Map P.2489	1:50 000
Baker, C.L.	1985	Quaternary Geology of the Kirkland Lake Area, Districts of Cochrane and Timiskaming.	OGS OFR 5553	144pp.

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Baker, C.L. Seaman, A.A. Steele, K.G.	1980	Quaternary Geology of Ramore Area, Districts of Cochrane and Timiskaming	OGS Map P.2381	1:50 000
Baker, C.L. Steele, K.G. McClenaghan, M.B.	1985	Reconnaissance Till Sampling Program, Matheson-Lake Abitibi Area, Cochrane District	OGS MP 126	p.329-333
Ginn, R.M. Leahy, E.J. Savage, W.S.	1962	Munro-Pontiac Sheet, District of Cochrane	ODM Map P.120	1:63 360
Hodgson, C.J.	1983	Preliminary Report on the Timmins-Kirkland Lake Area Gold Deposits File	OGS OFR 5467	434pp.
Hughes, O.L.	1960	Surficial Geology of Kirkland Lake, Timiskaming and Cochrane Districts, Ontario	GSC Map 1-1960	1:126 720
Jensen, L.S.	1974	No. 16 Ramore Area: District of Timiskaming & Cochrane	Summary of Field Work ODM MP 59	p.99-106
Jensen, L.S.	1975	No. 16 Ramore Area: District of Timiskaming & Cochrane	Summary of Field Work ODM MP 63	p.73-75
Jensen, L.S.	1985	Precambrian Geology of the Ramore Area, Northeastern Part, District of Cochrane	OGS Map P.2861	1:15 840
Jensen, L.S.	1985	Precambrian Geology of the Ramore area, Cochrane District	OGS OFM 12	1:50 000
Lee, H.A.	1979	Northern Ontario Engineering Geology Terrain Study, Data Base Map, Kirkland Lake	OGS Map 5030	1:100 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Letros, S. Strangway, D.W. Tasillo, A.M. Geissman, J.W.	1981	Grant #20 Magnetism and Stratigraphy in the Blake River Volcanics	OGS OFR 5365	
Lovell, H.L. Frey, E.D. & GSC Staff	1973	Barnet Twp. Cochrane District, Ontario Kirkland Lake Data Series	ODM Map P.827(Rev)	1:15 840
Lovell, H.L., Guindon, G. & Grabowski, G.	1985	Kirkland Lake Resident Geologist Area, Northern Region	Resident Geologist Activity Report MP-122	p.162-196
Ploeger, F. Campbell, A. Grabowski, G.	1979	Barnet Township, Cochrane District Kirkland Lake Data Series	Map P.827(Rev)	1:15 840
Rogers, W.R.	1928	Statistical Review of Ontario's Mineral Industry in 1927	ODM AR v.37, pt.1	p.1-68
Sinclair, D.G. Cleland, R.H. Keeley, E.C. et al.	1930	Mines of Ontario in 1928	ODM AR v.38, pt. 1	
Strangeway, D.W., Geissman, J.W., Bambrick, J., Letros, S., Tasillo, A.	1981	Magnetism & Stratigraphy of the Blake River Volcanics	OGS OFR 5365 pt. 6	
Sutherland, T.F. Collins, E.A. Stovel, J.H. Bartlett, J.	1917	Mines of Ontario	OBM AR v.26	p.74-156

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Wright, D.G.H.	1922	The Black River Area	ODM AR v.30, pt. 6 Map 30C	p.27-62
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Letros, S. Strangway, D. Tasillo-Hirt, A. Geissman, J. Jensen, L.	1983	Aeromagnetic Interpretation of the Kirkland Lake-Larder Lake Portion of the Abitibi Greenstone Belt, Ontario.	Can. Jour. of Earth Sci. v.20	p.548-560
Middleton, R.S.	1975	Gravity Control Network in the Timmins, Matheson and Cobalt Area, Cochrane and Timiskaming Districts, Ontario	ODM GR 127	94p.
Smith, I.E.M.	1980	Geochemical Evolution in the Blake River Group, Abitibi Greenstone Belt, Superior Province	Can. Jour. of Earth Sci. v.17	p.1292-1299
Tasillo, A.M.	1981	Paleomagnetism of the Blake River Group, Abitibi Greenstone Belt, Ontario	Msc Thesis	
Tasillo, A.M.	1983	Paleomagnetism of the Blake River Group, Abitibi Greenstone Belt, Ontario	Can. Jour. of Earth Sci. v.19	p.2100-2113

GDIF FORM NO.9

NOTES AND ADDENDA

Aerial Photography
on file in Kirkland Lake
Resident Geologist's Office

YEAR	ROLL	FLIGHT LINE	PHOTO
1959	4815	33	119
	4815	33	120
	4815	33	125
1971	4816	43	58
	4816	43	59
	4816	43	60
	4816	43	61
	4816	43	62
	4816	43	63
1971	4817	9	242
	4817	9	243
	4817	9	244
	4817	9	245
	4817	9	246
	4817	9	247
	4817	9	248
1971	4818	9	143
	4818	9	144
	4818	9	145
	4818	9	146
	4818	9	147
	4818	9	148
	4818	9	149

Note: Aerial .
See Photograph File Cook Township For 1959 4815-33-#118
#121 to #124

GDIF FORM NO.8

GSC INDEX TO PUBLICATION

Words searched: Barnet Township

Index Volume	Listing:	Report Volume	Part	Page
1927 to 1950	Barnet Twp., Ontario Gold Deposit	M-192		11

GDIF FORM NO. 8

Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 349

(Map 1 of 2)

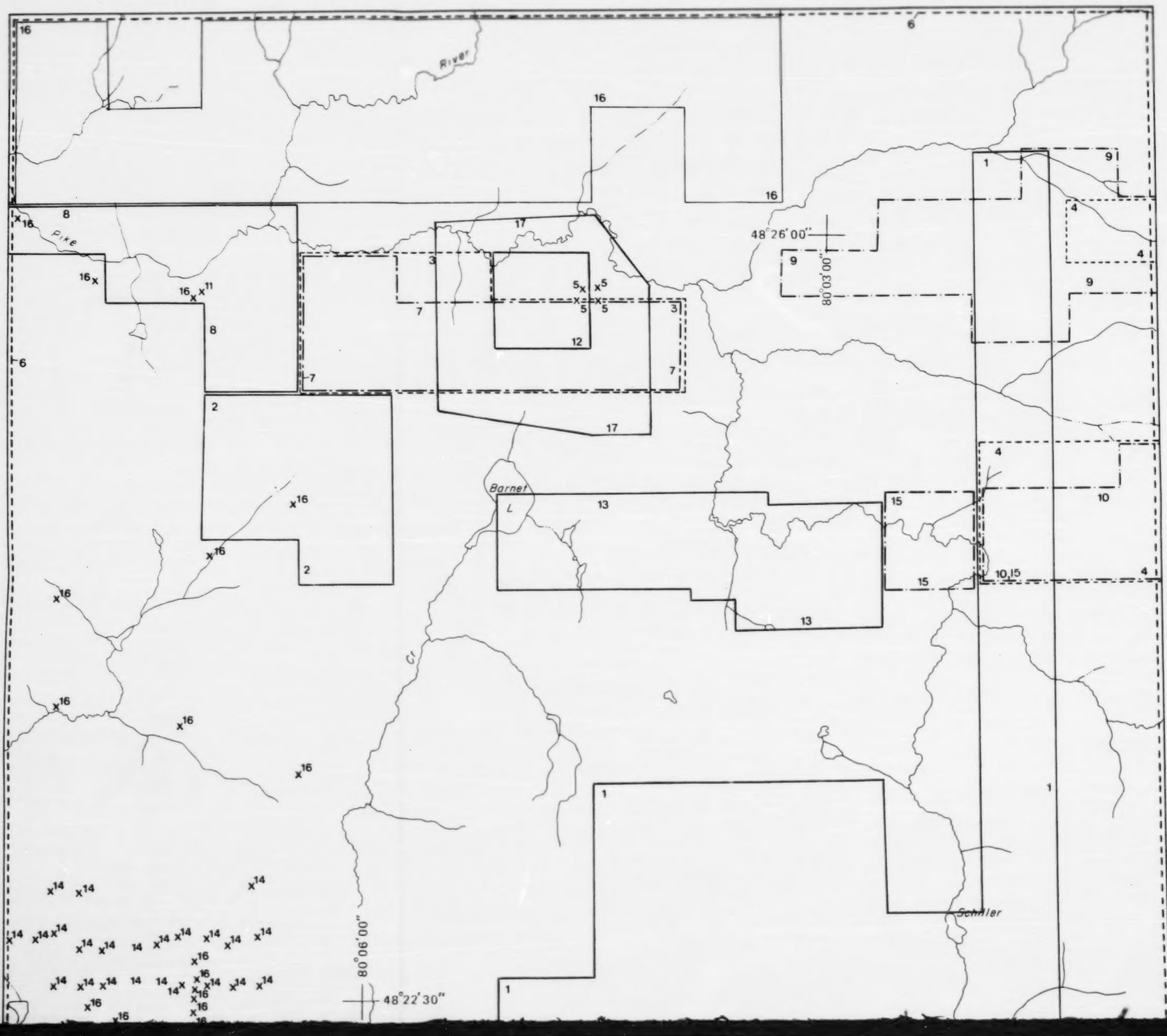
BARNET TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined.

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 349

(Map 1 of 2)

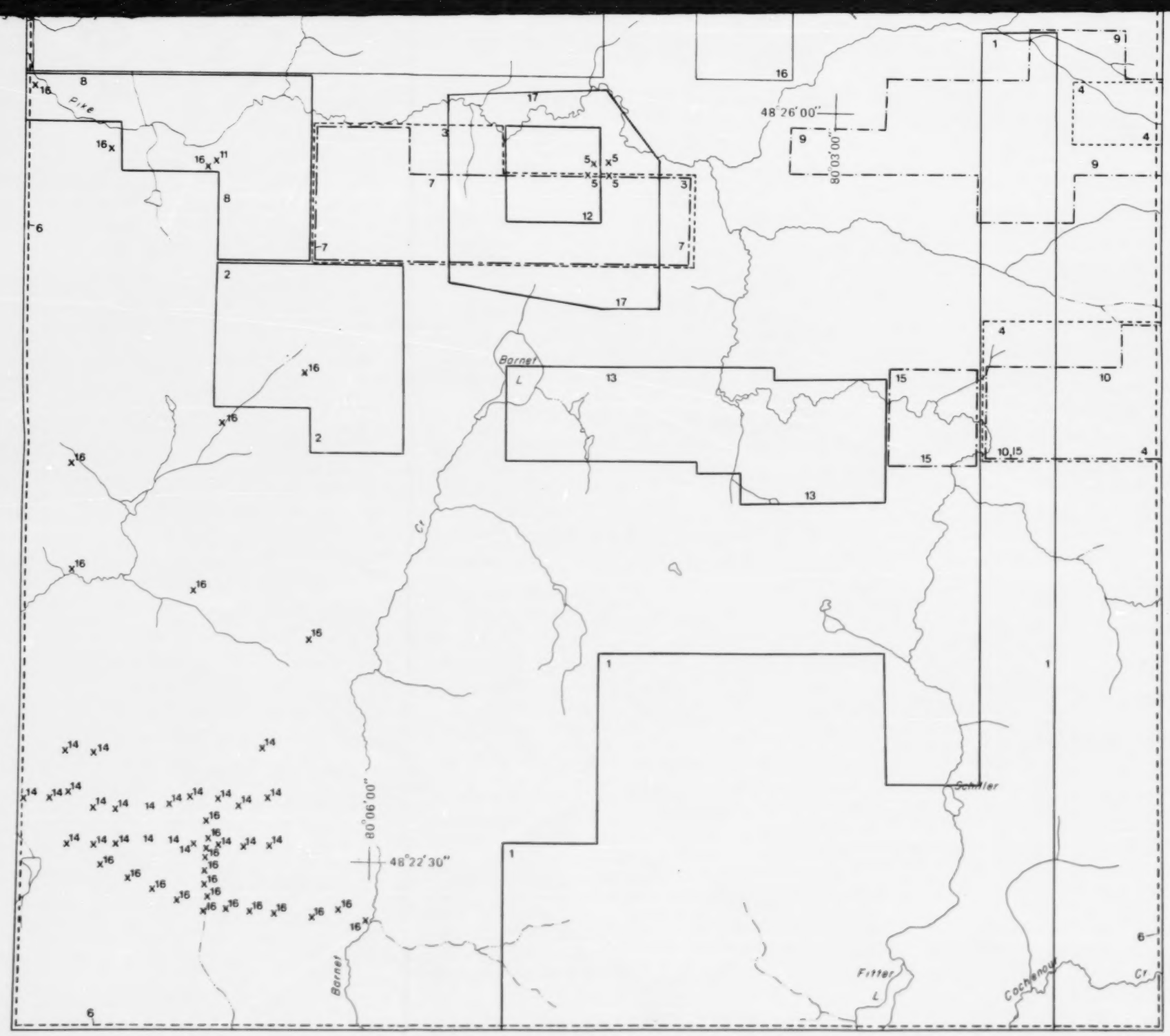
BARNET TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- AEM — Airborne electromagnetic anomaly
  Conductor axis
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop;
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly
  (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit, property no.
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 349

(Map **2** of **2**)

BARNET TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter

DRILLHOLE

- ●² — Location of single drillhole, with reference number
- ◉² — Location of closely spaced group of drillholes, with reference number
- (?)² — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- ○² — Property with drillholes which have not been plotted on map, with reference number
- ⊕² — Reverse circulation drillhole; churn drilling, with reference number

349 Folio

GEOPHYSICAL ANOMALIES

- ■ AM — Airborne magnetic anomaly
- □ — Airborne electromagnetic anomaly
  Length of anomaly along flight line
- □ — Airborne electromagnetic anomaly
  Location of anomaly along flight line
- ■ AEM — Airborne electromagnetic anomaly
  Conductor axis
- □ ARA — Airborne radiometric anomaly
- ■ M — Ground magnetic anomaly
- ■ VL — Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop;
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- □ RA — Ground radiometric anomaly
- □ IP — Induced polarization anomaly
- □ SP — Self potential anomaly
- □ AFMAG — Audio-frequency magnetic anomaly
  (total intensity)
- □ R — Resistivity anomaly
- □ GR — Gravity anomaly

MISCELLANEOUS DATA

- ■ Trenching, pit, property no.
- □ Adit
- □ Open pit
- □ Rock quarry
- □ Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 349

(Map 2 of 2)

BARNET TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
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DRILLHOLE

- ●² — Location of single drillhole, with reference number
- ◉² — Location of closely spaced group of drillholes, with reference number
- ?² — Drillhole: exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- ○² — Property with drillholes which have not been plotted on map, with reference number
- ⊕² — Reverse circulation drillhole; churn drilling, with reference number

48°26'00"

80°03'00"

80°06'00"

48°22'30"

Barnet L

Schiller

Fitter L

Cochenour Cr

Barnet